

## SEQUENCE LISTING

				165					170					175			
Gln	Phe	Thr	Thr	Leu	Pro	Glu	Val	Lys	Asp	Arg	Cys	Phe	Ala	Thr	Gln		
				180					185					190			
Val	Tyr	Cys	Lys	Trp	Arg	Tyr	His	Gln	Gly	Arg	Asp	Val	Asp	Phe	Glu		
			195				200						205				
Ala	Thr	Trp	Asp	Thr	Val	Arg	Ser	Ile	Val	Leu	Gln	Lys	Phe	Ala	Gly		
			210				215					220					
Pro	Tyr	Asp	Lys	Gly	Glu	Tyr	Ser	Pro	Ser	Val	Gln	Lys	Thr	Leu	Tyr		
225						230					235				240		
Asp	Ile	Gln	Val	Leu	Thr	Leu	Gly	Gln	Val	Pro	Glu	Ile	Glu	Asp	Met		
				245					250					255			
Glu	Ile	Ser	Leu	Pro	Asn	Ile	His	Tyr	Leu	Asn	Ile	Asp	Met	Ser	Lys		
			260					265					270				
Met	Gly	Leu	Ile	Asn	Lys	Glu	Glu	Val	Leu	Leu	Pro	Leu	Asp	Asn	Pro		
		275					280						285				
Tyr	Gly	Arg	Ile	Thr	Gly	Thr	Val	Lys	Arg	Lys	Leu	Thr	Ser	Arg	Leu		
	290					295					300						

<210> 2

<211> 304

<212> PRT

<213> Papio hamadryas

<400> 2

Met	Ala	Asp	Tyr	His	Asn	Asn	Tyr	Lys	Lys	Asn	Asp	Glu	Leu	Glu	Phe		
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Val	Arg	Thr	Gly	Tyr	Gly	Lys	Asp	Met	Val	Lys	Val	Leu	His	Ile	Gln		
			20				25					30					
Arg	Asp	Gly	Lys	Tyr	His	Ser	Ile	Lys	Glu	Val	Ala	Thr	Ser	Val	Gln		
		35				40					45						
Leu	Thr	Leu	Ser	Ser	Lys	Lys	Asp	Tyr	Leu	His	Gly	Asp	Asn	Ser	Asp		
	50				55					60							
Ile	Ile	Pro	Thr	Asp	Thr	Ile	Lys	Asn	Thr	Val	His	Val	Leu	Ala	Lys		
65				70					75						80		
Phe	Lys	Gly	Ile	Lys	Ser	Ile	Glu	Ala	Phe	Gly	Val	Asn	Ile	Cys	Glu		
			85				90					95					
Tyr	Phe	Leu	Ser	Ser	Phe	Asn	His	Val	Ile	Arg	Ala	Gln	Val	Tyr	Val		
		100				105					110						
Glu	Glu	Ile	Pro	Trp	Lys	Arg	Leu	Glu	Lys	Asn	Gly	Val	Lys	His	Val		
		115				120					125						
His	Ala	Phe	Ile	His	Thr	Pro	Thr	Gly	Thr	His	Phe	Cys	Glu	Val	Glu		
	130				135					140							
Gln	Leu	Arg	Ser	Gly	Pro	Pro	Val	Ile	His	Ser	Gly	Ile	Lys	Asp	Leu		
145				150				155						160			
Lys	Val	Leu	Lys	Thr	Thr	Gln	Ser	Gly	Phe	Glu	Gly	Phe	Ile	Lys	Asp		
			165				170					175					
Gln	Phe	Thr	Thr	Lys	Pro	Glu	Val	Lys	Asp	Arg	Cys	Phe	Ala	Thr	Gln		
		180					185					190					
Val	Tyr	Cys	Lys	Trp	Arg	Tyr	His	Gln	Cys	Arg	Asp	Val	Asp	Phe	Glu		
		195				200					205						
Ala	Thr	Trp	Gly	Thr	Ile	Arg	Asp	Leu	Val	Leu	Glu	Lys	Phe	Ala	Gly		
	210				215					220							
Pro	Tyr	Asp	Lys	Gly	Glu	Tyr	Ser	Pro	Ser	Val	Gln	Lys	Thr	Leu	Tyr		
225				230						235				240			
Asp	Ile	Gln	Val	Leu	Ser	Leu	Ser	Arg	Val	Pro	Glu	Ile	Glu	Asp	Met		
			245				250						255				

Glu	Ile	Ser	Leu	Pro	Asn	Ile	His	Tyr	Phe	Asn	Ile	Asp	Met	Ser	Lys
			260					265					270		
Met	Gly	Leu	Ile	Asn	Lys	Glu	Glu	Val	Leu	Leu	Pro	Leu	Asp	Asn	Pro
		275				280						285			
Tyr	Gly	Lys	Ile	Thr	Gly	Thr	Val	Lys	Arg	Lys	Leu	Ser	Ser	Arg	Leu
	290					295					300				

<210> 3

<211> 304

<212> PRT

<213> Mutant combination of *Sus scrofa* & *Papio hamadryas*

<400> 3

Met	Ala	His	Tyr	Arg	Asn	Asp	Tyr	Lys	Lys	Asn	Asp	Glu	Val	Glu	Phe
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Val	Arg	Thr	Gly	Tyr	Gly	Lys	Asp	Met	Ile	Lys	Val	Leu	His	Ile	Gln
			20					25					30		
Arg	Asp	Gly	Lys	Tyr	His	Ser	Ile	Lys	Glu	Val	Ala	Thr	Ser	Val	Gln
		35					40					45			
Leu	Thr	Leu	Ser	Ser	Lys	Lys	Asp	Tyr	Leu	His	Gly	Asp	Asn	Ser	Asp
	50					55					60				
Val	Ile	Pro	Thr	Asp	Thr	Ile	Lys	Asn	Thr	Val	Asn	Val	Leu	Ala	Lys
65					70					75					80
Phe	Lys	Gly	Ile	Lys	Ser	Ile	Glu	Thr	Phe	Ala	Val	Thr	Ile	Cys	Glu
				85					90					95	
His	Phe	Leu	Ser	Ser	Phe	Lys	His	Val	Ile	Arg	Ala	Gln	Val	Tyr	Val
			100					105					110		
Glu	Glu	Val	Pro	Trp	Lys	Arg	Phe	Glu	Lys	Asn	Gly	Val	Lys	His	Val
	115						120					125			
His	Ala	Phe	Ile	Tyr	Thr	Pro	Thr	Gly	Thr	His	Phe	Cys	Glu	Val	Glu
	130					135					140				
Gln	Ile	Arg	Asn	Gly	Pro	Pro	Val	Ile	His	Ser	Gly	Ile	Lys	Asp	Leu
145					150					155					160
Lys	Val	Leu	Lys	Thr	Thr	Gln	Ser	Gly	Phe	Glu	Gly	Phe	Ile	Lys	Asp
			165						170				175		
Gln	Phe	Thr	Thr	Leu	Pro	Glu	Val	Lys	Asp	Arg	Cys	Phe	Ala	Thr	Gln
			180					185					190		
Val	Tyr	Cys	Lys	Trp	Arg	Tyr	His	Gln	Gly	Arg	Asp	Val	Asp	Phe	Glu
	195						200					205			
Ala	Thr	Trp	Asp	Thr	Val	Arg	Ser	Ile	Val	Leu	Gln	Lys	Phe	Ala	Gly
	210					215					220				
Pro	Tyr	Asp	Lys	Gly	Glu	Tyr	Ser	Pro	Ser	Val	Gln	Lys	Thr	Leu	Tyr
225					230					235					240
Asp	Ile	Gln	Val	Leu	Thr	Leu	Gly	Gln	Val	Pro	Glu	Ile	Glu	Asp	Met
			245						250				255		
Glu	Ile	Ser	Leu	Pro	Asn	Ile	His	Tyr	Leu	Asn	Ile	Asp	Met	Ser	Lys
			260					265					270		
Met	Gly	Leu	Ile	Asn	Lys	Glu	Glu	Val	Leu	Leu	Pro	Leu	Asp	Asn	Pro
	275					280						285			
Tyr	Gly	Lys	Ile	Thr	Gly	Thr	Val	Lys	Arg	Lys	Leu	Ser	Ser	Arg	Leu
	290					295					300				